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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/082,747A

DATE: 09/27/2002

TIME: 13:08:18

Input Set : A:\476112USseqlist2.txt

Output Set: N:\CRF4\09272002\J082747A.raw

4 <110> APPLICANT: Genentech, Inc.
5 Ballinger, Marcus D.
6 Jones, Jennifer T.
7 Fairbrother, Wayne J.
8 Sliwkowski, Mark X.
9 Wells, James A.
12 <120> TITLE OF INVENTION: HEREGULIN VARIANTS
15 <130> FILE REFERENCE: 402E-476112US
17 <140> CURRENT APPLICATION NUMBER: US 10/082,747A
C--> 18 <141> CURRENT FILING DATE: 2002-09-16
20 <150> PRIOR APPLICATION NUMBER: US 09/101,544
21 <151> PRIOR FILING DATE: 1998-07-17
23 <150> PRIOR APPLICATION NUMBER: PCT/US/98/01579
24 <151> PRIOR FILING DATE: 1998-02-10
26 <150> PRIOR APPLICATION NUMBER: US 08/799,054
27 <151> PRIOR FILING DATE: 1997-02-10
29 <160> NUMBER OF SEQ ID NOS: 116
31 <170> SOFTWARE: FastSEQ for Windows Version 3.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 71
35 <212> TYPE: PRT
36 <213> ORGANISM: Homo sapiens
38 <220> FEATURE:
40 <400> SEQUENCE: 1
41 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
42 1 5 10 15
43 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
44 20 25 30
45 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
46 35 40 45
47 Val Met Ala Ser Phe Tyr Lys His Leu Gly Ile Glu Phe Met Glu Ala
48 50 55 60
49 Glu Glu Leu Tyr Gln Lys Arg
50 65 70
52 <210> SEQ ID NO: 2
53 <211> LENGTH: 66
54 <212> TYPE: PRT
55 <213> ORGANISM: Homo sapiens
57 <400> SEQUENCE: 2
58 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
59 1 5 10 15
60 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
61 20 25 30

Input Set : A:\476112USseqlist2.txt
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62 Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn
63 35 40 45
64 Val Pro Met Lys Val Gln Asn Gln Glu Lys Ala Glu Glu Leu Tyr Gln
65 50 55 60
66 Lys Arg
67 65
69 <210> SEQ ID NO: 3
70 <211> LENGTH: 63
71 <212> TYPE: PRT
72 <213> ORGANISM: Homo sapiens
74 <400> SEQUENCE: 3
75 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
76 1 5 10 15
77 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
78 20 25 30
79 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
80 35 40 45
81 Val Met Ala Ser Phe Tyr Lys Ala Glu Glu Leu Tyr Gln Lys Arg
82 50 55 60
84 <210> SEQ ID NO: 4
85 <211> LENGTH: 65
86 <212> TYPE: PRT
87 <213> ORGANISM: Homo sapiens
89 <400> SEQUENCE: 4
90 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
91 1 5 10 15
92 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
93 20 25 30
94 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
95 35 40 45
96 Val Met Ala Ser Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro
97 50 55 60
98 Glu
99 65
101 <210> SEQ ID NO: 5
102 <211> LENGTH: 66
103 <212> TYPE: PRT
104 <213> ORGANISM: Rattus rattus
106 <400> SEQUENCE: 5
107 Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
108 1 5 10 15
109 Gly Gly Glu Cys Phe Thr Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
110 20 25 30
111 Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn
112 35 40 45
113 Val Pro Met Lys Val Gln Thr Gln Glu Lys Ala Glu Glu Leu Tyr Gln
114 50 55 60
115 Lys Arg
116 65

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118 <210> SEQ ID NO: 6
119 <211> LENGTH: 71
120 <212> TYPE: PRT
121 <213> ORGANISM: Rattus rattus
123 <400> SEQUENCE: 6
124 Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
125 1 5 10 15
126 Gly Gly Glu Cys Phe Thr Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
127 20 25 30
128 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
129 35 40 45
130 Val Met Ala Ser Phe Tyr Lys His Leu Gly Ile Glu Phe Met Glu Ala
131 50 55 60
132 Glu Glu Leu Tyr Gln Lys Arg
133 65 70
135 <210> SEQ ID NO: 7
136 <211> LENGTH: 63
137 <212> TYPE: PRT
138 <213> ORGANISM: Rattus rattus
140 <400> SEQUENCE: 7
141 Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
142 1 5 10 15
143 Gly Gly Glu Cys Phe Thr Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
144 20 25 30
145 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
146 35 40 45
147 Val Met Ala Ser Phe Tyr Lys Ala Glu Glu Leu Tyr Gln Lys Arg
148 50 55 60
150 <210> SEQ ID NO: 8
151 <211> LENGTH: 64
152 <212> TYPE: PRT
153 <213> ORGANISM: Rattus rattus
155 <400> SEQUENCE: 8
156 Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
157 1 5 10 15
158 Gly Gly Glu Cys Phe Thr Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
159 20 25 30
160 Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn
161 35 40 45
162 Val Pro Met Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro Glu
163 50 55 60
165 <210> SEQ ID NO: 9
166 <211> LENGTH: 81
167 <212> TYPE: PRT
168 <213> ORGANISM: Rattus rattus
170 <400> SEQUENCE: 9
171 Ser His Leu Ile Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
172 1 5 10 15
173 Gly Gly Glu Cys Phe Thr Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr

Input Set : A:\476112USseqlist2.txt
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174 20 25 30
175 Leu Cys Lys Cys Gln Pro Gly Phe Thr Gly Ala Arg Cys Thr Glu Asn
176 35 40 45
177 Val Pro Met Phe Tyr Ser Met Thr Ser Arg Arg Lys Arg Gln Glu Thr
178 50 55 60
179 Glu Lys Pro Leu Glu Arg Lys Leu Phe His Ser Leu Val Lys Glu Ser
180 65 70 75 80
181 Lys
184 <210> SEQ ID NO: 10
185 <211> LENGTH: 65
186 <212> TYPE: PRT
187 <213> ORGANISM: Homo sapiens
189 <400> SEQUENCE: 10
190 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
191 1 5 10 15
192 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
193 20 25 30
194 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
195 35 40 45
196 Val Met Ala Ser Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro
197 50 55 60
198 Glu
199 65
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 65
203 <212> TYPE: PRT
204 <213> ORGANISM: Homo sapiens
206 <400> SEQUENCE: 11
207 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
208 1 5 10 15
209 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
210 20 25 30
211 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
212 35 40 45
213 Val Met Ala Ser Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro
214 50 55 60
215 Glu
216 65
218 <210> SEQ ID NO: 12
219 <211> LENGTH: 65
220 <212> TYPE: PRT
221 <213> ORGANISM: Homo sapiens
223 <400> SEQUENCE: 12
224 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
225 1 5 10 15
226 Gly Gly Glu Cys Phe Met Val Lys Asp Leu Ser Asn Pro Ser Arg Tyr
227 20 25 30
228 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
229 35 40 45

Input Set : A:\476112USseqlist2.txt
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230 Val Met Ala Ser Phe Tyr Ser Thr Ser Thr Pro Phe Leu Ser Leu Pro
231 50 55 60
232 Glu
233 65
235 <210> SEQ ID NO: 13
236 <211> LENGTH: 71
237 <212> TYPE: PRT
238 <213> ORGANISM: Gallus domesticus
240 <400> SEQUENCE: 13
241 Ser His Leu Thr Lys Cys Asp Ile Lys Gln Lys Ala Phe Cys Val Asn
242 1 5 10 15
243 Gly Gly Glu Cys Tyr Met Val Lys Asp Leu Pro Asn Pro Pro Arg Tyr
244 20 25 30
245 Leu Cys Lys Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr
246 35 40 45
247 Val Met Ala Ser Phe Tyr Lys His Leu Gly Ile Glu Phe Met Glu Ala
248 50 55 60
249 Glu Glu Leu Tyr Gln Lys Arg
250 65 70
252 <210> SEQ ID NO: 14
253 <211> LENGTH: 49
254 <212> TYPE: PRT
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: Variant of the human heregulin-beta1 EGF-like domain
259 containing a deletion of human heregulin-beta1 residues
260 202-204
262 <400> SEQUENCE: 14
263 Ser His Leu Val Lys Cys Ala Glu Lys Glu Lys Thr Phe Cys Val Asn
264 1 5 10 15
265 Gly Gly Glu Cys Phe Met Val Lys Asp Pro Ser Arg Tyr Leu Cys Lys
266 20 25 30
267 Cys Pro Asn Glu Phe Thr Gly Asp Arg Cys Gln Asn Tyr Val Met Ala
268 35 40 45
269 Ser
272 <210> SEQ ID NO: 15
273 <211> LENGTH: 48
274 <212> TYPE: PRT
275 <213> ORGANISM: Homo sapiens
277 <400> SEQUENCE: 15
278 Asn Ser Asp Ser Glu Cys Pro Leu Ser His Asp Gly Tyr Cys Leu His
279 1 5 10 15
280 Asp Gly Val Cys Met Tyr Ile Glu Ala Leu Asp Lys Tyr Ala Cys Asn
281 20 25 30
282 Cys Val Val Gly Tyr Ile Gly Glu Arg Cys Gln Tyr Arg Asp Leu Arg
283 35 40 45
285 <210> SEQ ID NO: 16
286 <211> LENGTH: 49
287 <212> TYPE: PRT

VERIFICATION SUMMARY
PATENT APPLICATION: US/10/082,747A

DATE: 09/27/2002
TIME: 13:08:19

Input Set : A:\476112USseqlist2.txt
Output Set: N:\CRF4\09272002\J082747A.raw

L:18 M:271 C: Current Filing Date differs, Replaced Current Filing Date